



Water-Data Report NV-2005

10293500 EAST WALKER RIVER ABOVE STROSNIDER DITCH NEAR MASON, NV

WALKER RIVER BASIN, WALKER RIVER BASIN

LOCATION.--Lat 38°48'49.37", long 119°02'52.77" referenced to North American Datum of 1983, in NW ¼ SW ¼ sec.14, T.11 N., R.26 E., Lyon County, Hydrologic Unit 16050303, on right bank, 0.9 mi upstream from head of Strosnider ditch, 12 mi southeast of Mason, and 13.5 mi southeast of Yerington.

DRAINAGE AREA.--1100 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Jan 1947 to current year (irrigation season only, 1979 to 1994).

GAGE.--Water-stage recorder. Datum of gage is 4,574.10 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct 24, 1957, near present site at datum 0.56 ft higher. Oct 24, 1957, to Apr 03, 1974, at site 400 ft downstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation above station. Flow regulated by Bridgeport Reservoir (station 10292500).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,610 ft³/s, Jan 04, 1997, gage height, 9.61 ft; minimum daily, 2.3 ft³/s, Mar 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,020 ft³/s, Jun 1, gage height, 7.44 ft; minimum daily discharge, 23 ft³/s, Nov 23.

10293500 EAST WALKER RIVER ABOVE STROSNIDER DITCH NEAR MASON, NV—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	42	36	35	34	41	45	119	205	956	500	360	246
2	42	35	e34	29	49	44	129	199	759	527	364	259
3	42	34	e34	28	50	44	155	198	889	552	391	243
4	42	31	33	e28	51	44	201	199	927	579	404	236
5	39	33	e33	e30	52	44	238	211	927	612	410	242
6	36	32	e33	31	54	43	251	243	931	640	411	243
7	35	30	e30	e36	54	43	249	208	933	668	405	247
8	35	28	e30	39	53	43	267	170	902	640	389	241
9	36	31	e30	e39	45	43	274	184	843	648	387	244
10	37	30	31	e35	43	47	285	185	767	670	338	241
11	38	27	28	e33	42	45	305	166	619	663	301	238
12	37	27	31	e35	43	48	292	159	465	630	286	243
13	38	28	32	36	42	49	277	159	378	614	281	242
14	37	27	32	41	43	54	284	203	357	599	284	247
15	35	27	31	45	45	54	308	259	382	593	286	236
16	33	27	31	49	49	53	316	273	497	583	275	210
17	34	27	31	47	50	56	273	287	605	571	264	205
18	33	27	31	47	47	46	212	284	713	553	269	204
19	40	27	e31	46	48	45	200	317	816	496	268	205
20	59	27	e31	40	45	46	202	464	842	445	262	197
21	63	27	e31	39	44	48	216	556	668	412	251	197
22	72	26	e31	38	46	47	202	668	396	408	238	186
23	86	23	e31	38	46	57	196	830	365	400	237	174
24	90	25	e31	38	46	58	202	876	356	392	232	162
25	95	25	e31	38	45	52	211	521	354	388	222	157
26	94	26	e31	41	45	53	215	455	367	380	225	154
27	92	28	e32	48	45	53	233	418	369	374	224	154
28	81	30	33	47	45	63	240	516	431	367	225	151
29	69	e31	32	45	---	71	219	642	489	382	218	151
30	57	e32	31	44	---	74	207	817	502	363	217	153
31	42	---	35	42	---	81	---	965	---	359	227	---
Total	1,611	864	981	1,206	1,308	1,593	6,978	11,837	18,805	16,008	9,151	6,308
Mean	52.0	28.8	31.6	38.9	46.7	51.4	233	382	627	516	295	210
Max	95	36	35	49	54	81	316	965	956	670	411	259
Min	33	23	28	28	41	43	119	159	354	359	217	151
Ac-ft	3,200	1,710	1,950	2,390	2,590	3,160	13,840	23,480	37,300	31,750	18,150	12,510

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	71.6	44.6	52.9	69.6	76.8	91.2	178	256	318	283	219	155
Max	173	173	178	813	383	363	755	905	1,420	885	708	446
(WY)	(1957)	(1999)	(1951)	(1997)	(1997)	(1969)	(1969)	(1969)	(1986)	(1995)	(1983)	(1983)
Min	22.0	18.3	15.4	13.9	15.9	8.78	15.5	30.5	58.1	32.7	23.1	13.3
(WY)	(1978)	(1978)	(1962)	(1962)	(1950)	(1948)	(1961)	(1991)	(1990)	(1992)	(1992)	(1977)

10293500 EAST WALKER RIVER ABOVE STROSNIDER DITCH NEAR MASON, NV—Continued**SUMMARY STATISTICS**

	Calendar Year 2004		Water Year 2005		Water Years 1948 - 2005	
Annual total	27,798		76,650			
Annual mean	76.0		210		151	
Highest annual mean					401	1969
Lowest annual mean					38.7	1961
Highest daily mean	188	Jun 24	965	May 31	2,580	Jun 4, 1986
Lowest daily mean	23	Nov 23	23	Nov 23	2.3	Mar 12, 1977
Annual seven-day minimum	26	Nov 20	26	Nov 20	3.6	Mar 20, 1948
Maximum peak flow			1,020	Jun 1	2,610	Jan 4, 1997
Maximum peak stage			7.44	Jun 1	9.61	Jan 4, 1997
Annual runoff (ac-ft)	55,140		152,000		109,400	
10 percent exceeds	133		562		340	
50 percent exceeds	68		119		97	
90 percent exceeds	31		31		26	

10293500 EAST WALKER RIVER ABOVE STROSNIDER DITCH NEAR MASON, NV—Continued

WATER-QUALITY RECORDS

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Part 1 of 4

[Remark codes: <, less than.]

Date	Time	Sample type	Magnes- ium, bed sedimnt recover -able, mg/kg (00917)	Potas- sium, bed sedimnt recover -able, mg/kg (00924)	Sodium, bed sedimnt recover -able, mg/kg (00938)	Sulfur, bed sed wet svd field, total, percent (34970)	Phos- phorus, bed sedimnt wsv nat total, mg/kg (00668)	Total carbon, bed sed wsv nat field percent (49267)	Organic carbon, bed sed wsv nat field percent (49266)	Alum- inum, bed sedimnt recover -able, ug/g (01108)	Anti- mony, bed sed wet svd fld,tot ug/g (34795)	
Apr 28...	1100	Bed material	24,000	12,000	21,000	19,000	.08	1,300	1.1	1.0	85,000	1.9

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Part 2 of 4

[Remark codes: <, less than.]

Date	Arsenic bed sed <62.5um wet svd field, total, ug/g (34800)	Barium, bed sed <62.5um wet svd field, total, ug/g (34805)	Beryll- ium, bed sed <62.5um wet svd field, total, fld,tot ug/g (34810)	Bismuth bed sed <177um wet svd field, total, ug/g (34816)	Cadmium bed sed <62.5um wet svd field, total, ug/g (34825)	Cerium, bed sed <62.5um wet svd field, total, ug/g (34835)	Chrom- ium, bed sed <62.5um wet svd field, fld,tot ug/g (34840)	Cobalt, bed sed <62.5um wet svd field, total, ug/g (34845)	Copper, bed sed <62.5um wet svd field, total, ug/g (34850)	Gallium bed sed <62.5um wet svd field, total, ug/g (34860)	Lantha- num, bed sed <62.5um wet svd field, fld,tot ug/g (01170)	Lead, bed sed <62.5um wet svd field, total, ug/g (34885)	
Apr 28...	17	990	2.2	.450	.160	83	44	15	43	20	42,000	39	21

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Part 3 of 4

[Remark codes: <, less than.]

Date	Lithium bed sed <62.5um wet svd field, total, ug/g (34895)	Mangan- ese, bed sed <62.5um wet svd field, total, ug/g (34905)	Mercury bed sed <62.5um wet svd field, total, ug/g (34910)	Molyb- denum, bed sed <62.5um wet svd field, fld,tot ug/g (34915)	Nickel bed sed <62.5um wet svd field, total, ug/g (34925)	Niobium bed sed <62.5um wet svd field, total, ug/g (34930)	Scand- ium, bed sed <62.5um wet svd field, fld,tot ug/g (34945)	Silver, bed sed <62.5um wet svd field, total, ug/g (34955)	Stront- ium, bed sed <62.5um wet svd field, fld,tot ug/g (34965)	Tant- alum, bed sed <62.5um wet svd dry svd fld,tot ug/g (34975)	Thall- ium, bed sed <62.5um wet svd field, total, ug/g (04064)	Thorium bed sed <62.5um wet svd field, total, ug/g (34980)	Titan- ium, bed sedimnt total, ug/g (01153)
Apr 28...	35	860	.50	1.7	22	19	12	<3	530	1.4	.710	18	6,700

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Part 4 of 4

[Remark codes: <, less than.]

Date	Vanad- ium, bed sed <62.5um <62.5um wet svd wet svd fld,tot	Yttrium bed sed <62.5um wet svd field, total,	Zinc, bed sed <62.5um wet svd field, total,	Alpha radio- actvty	Gross beta	Ra-226, Cs-137,	Ra-228, sedimnt	Uranium bed sed <62.5um wet svd field, total,
	ug/g (35005)	ug/g (35010)	ug/g (35020)	pCi/g (04125)	pCi/g (49962)	pCi/g (09507)	pCi/g (75977)	ug/g (35000)
Apr 28...	130	22	99	27	33	1.5	2.0	5.6